

IN THE ABSTRACT

Please amend the Abstract as follows:

-- ABSTRACT

A signal processing device which outputs a discrete signal composed of a string of the sampling values and parameters m signal.—There is ~~provided a new signal processing device that uses functions appropriate to signal properties to acquire high quality signals.~~ The signal processing device includes a sampling circuit which² that samples an input signal and outputs a discrete signal, multiple function generators which³ that generate multiple sampling functions with parameters m different from each other, plural inner product operating units [4] for each of the parameters m that take an inner product between the input signal and each of plural sampling functions and output an inner product operating value, and a judging unit which⁸ that determines parameter m providing a minimum error out of multiple errors composed of differences between the sampling value and inner product operating values output from the multiple inner product operating units and outputs the parametersparameter m signal.—The signal processing device ~~outputs a discrete signal composed of a string of the sampling values and the parameter m signal.~~ --